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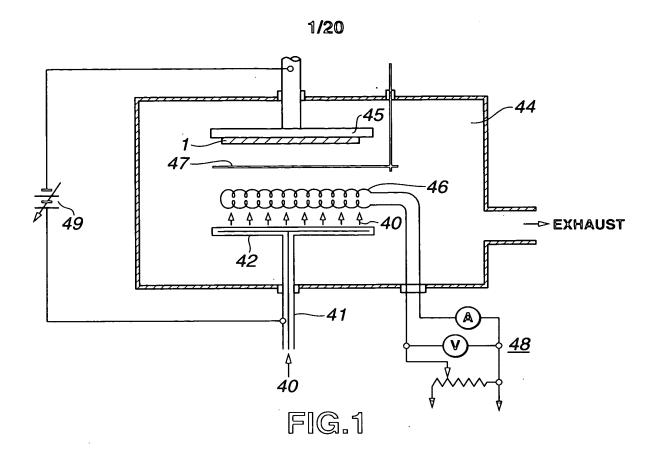
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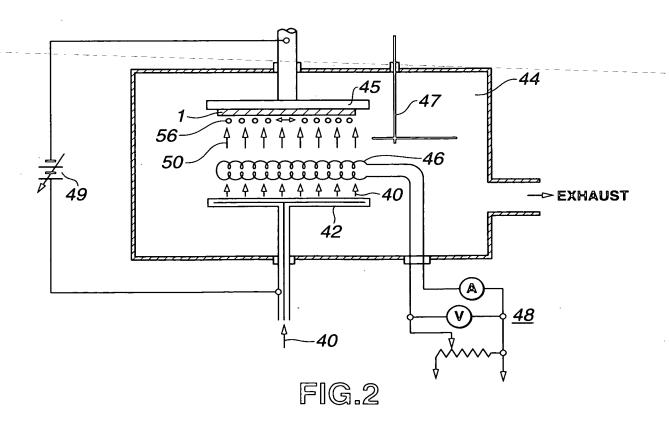
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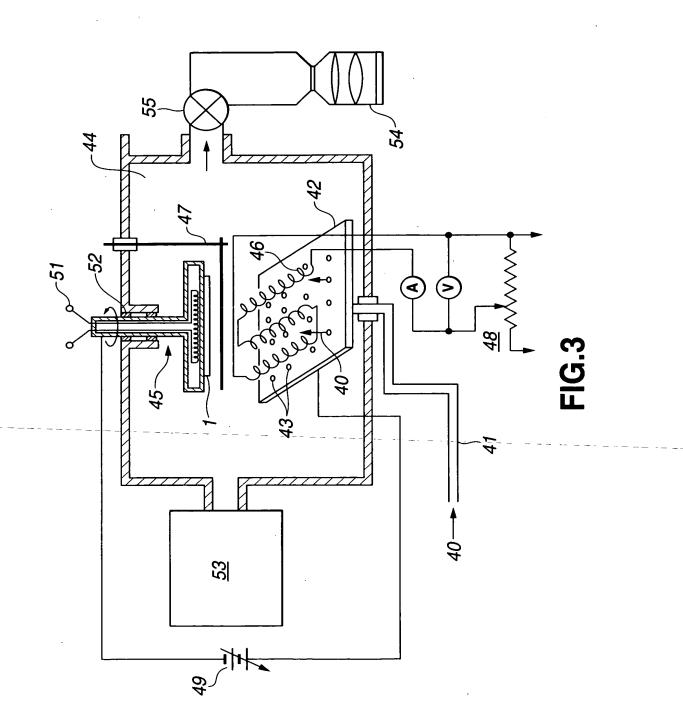
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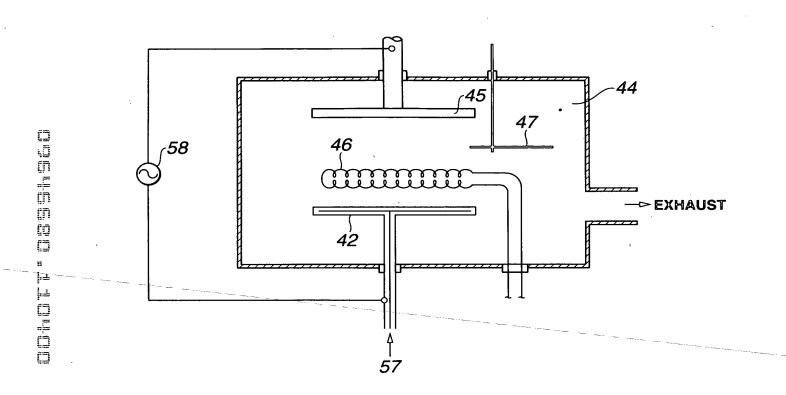


FIG.4



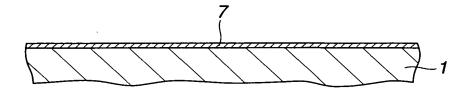


FIG.5B

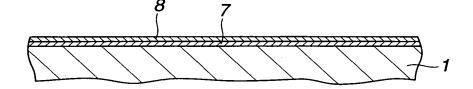


FIG.5C

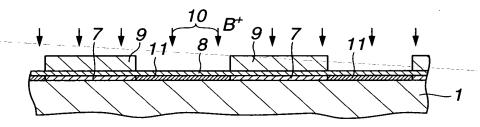
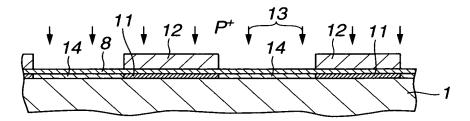
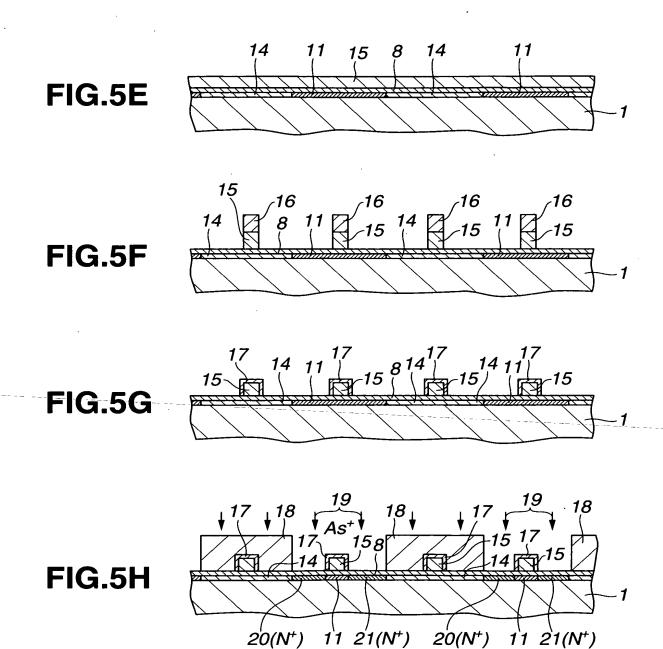


FIG.5D

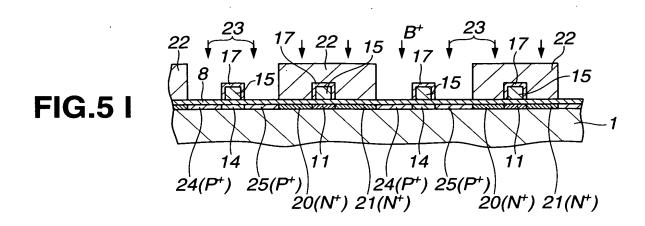


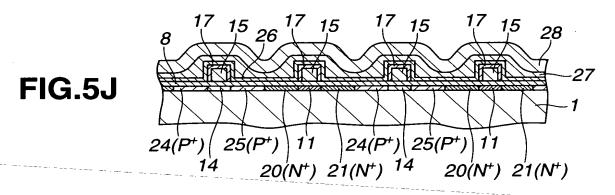
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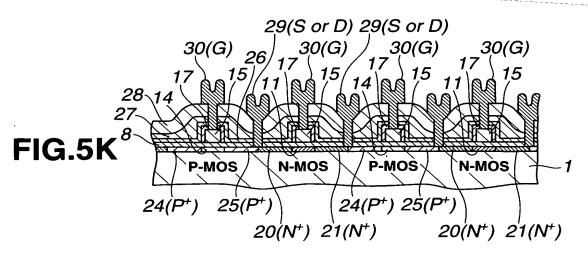


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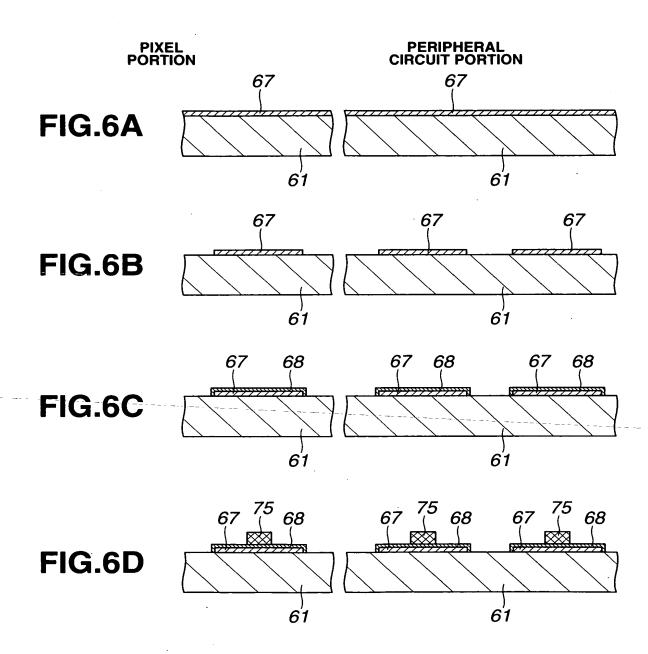
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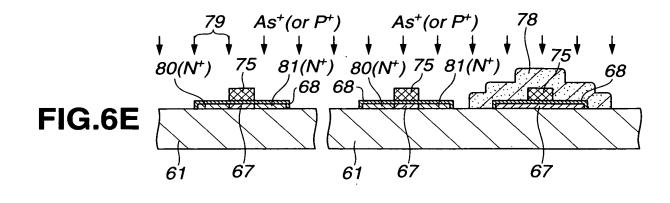


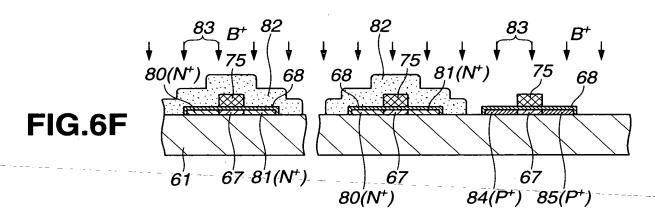


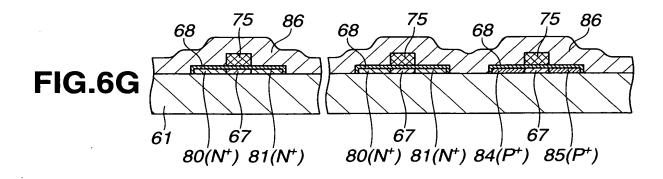


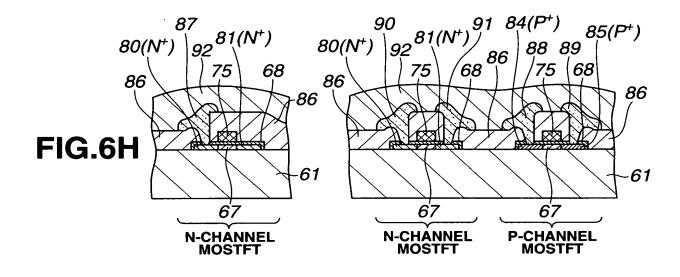


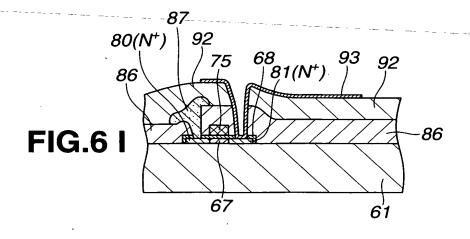












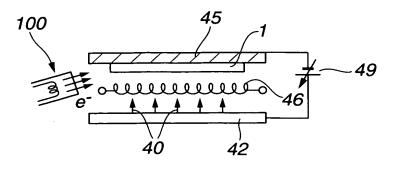


FIG.7

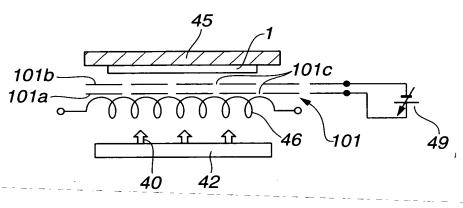


FIG.8

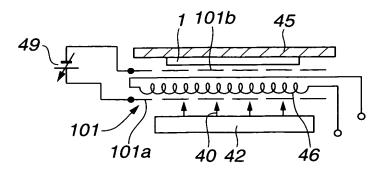


FIG.9

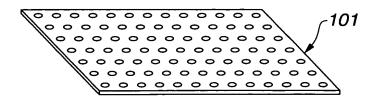


FIG.10

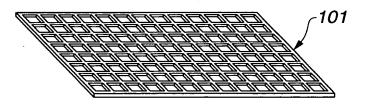


FIG.11

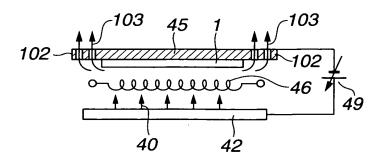


FIG.12

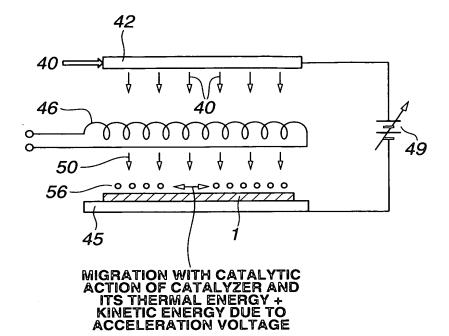


FIG.13

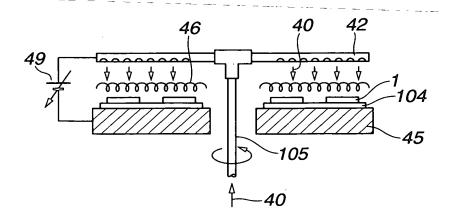


FIG.14

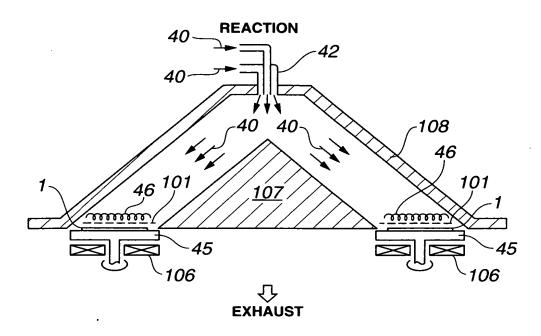


FIG.15

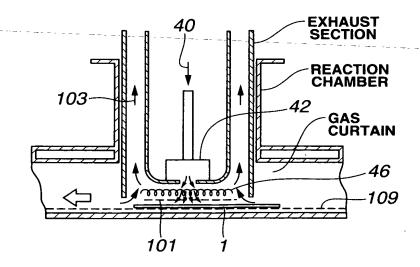


FIG.16

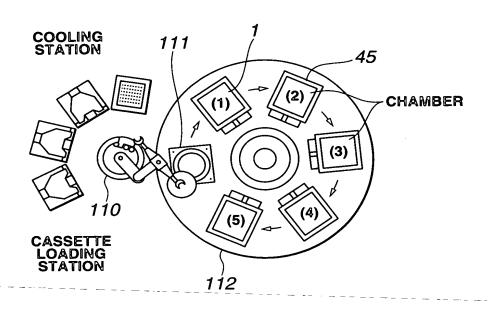
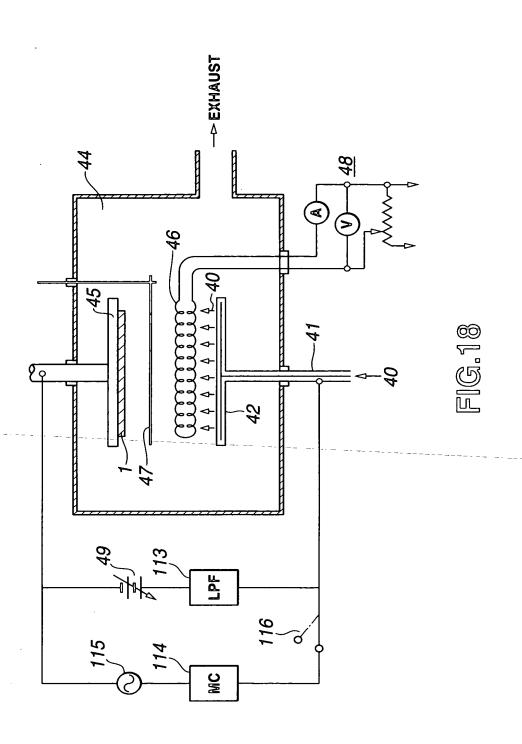
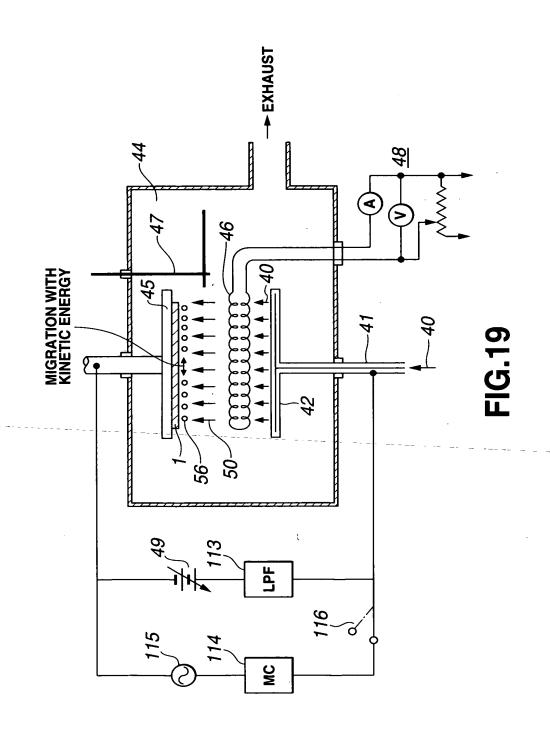


FIG.17





TOCHESSE MACHES

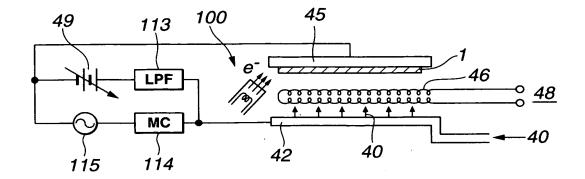


FIG.20

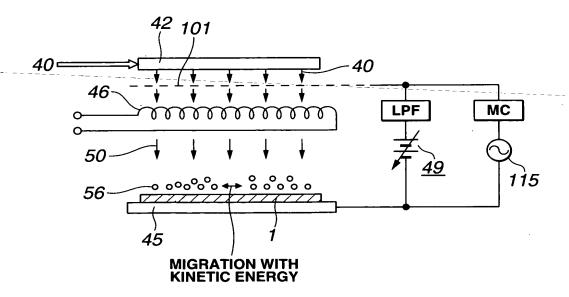
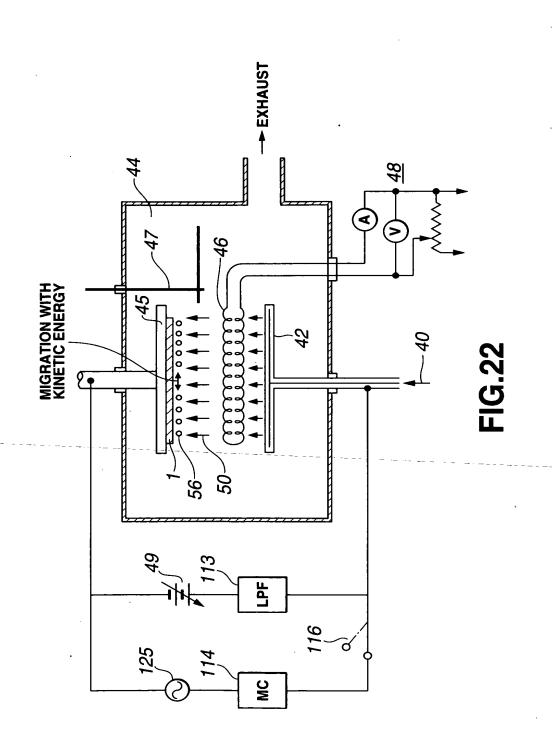


FIG.21



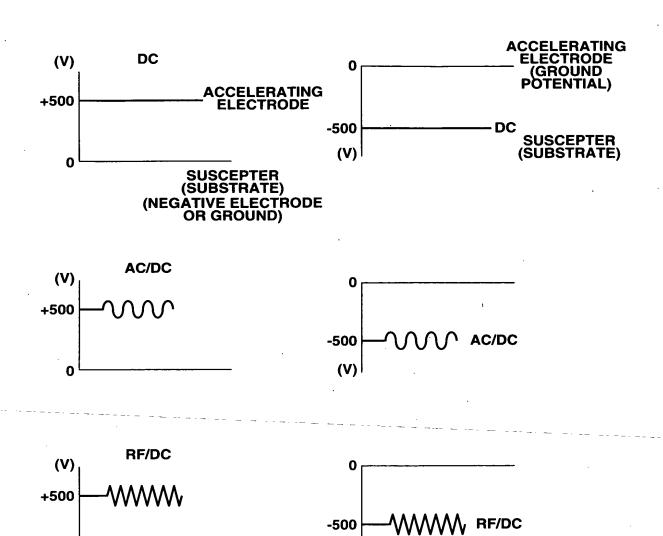
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COMBINATION OF MATERIAL GAS AND FILM TO BE FORMED

PRODUCED FILM	MATERIAL GAS
① Si OR POLYCRYSTAL Si	SiH4, SiHCl3, SiH2Cl2, SiCl4 Si2H6
② SiO ₂	SiH4, SiHCl2, SiH2Cl2, SiCl4, SiBr4, Sil4, SiF4, Si(OC2H4)4, Si(OC2H5)4, (C2H5)Si(OC2H5)3, C5H11Si(OC2H5)3, C6H5Si(OC2H5)3, (CH3)2Si(OC2H5)2, AND O2, NO, N2O, NO2, CO2+H2, H2O
③ BPSG, BSG, PSG OR AsSG	MIX FOLLOWING GAS WITH MATERIAL GAS OF ② PH3, B2H6, AsH3, PO(OCH3)3, B(OCH3)3, B(OC3H7)3
④ SiNx	MIX NH3, N2H4, N2, WITH SIH4, SIH6, SIHCl3, SIH2Cl2, SIH3Cl, SICl4, SIBr4 ETC. Ar, He, ETC. AS CARRIER GAS
⑤ SiOxNy	SAME AS MATERIAL GAS OF 2,4
⑥ AI	AICI3, AI(CH3)3(TMA), AI(C2H5)3(TEA), AI(OC3H7)3 H2 AS REDUCTION GAS
⑦ Al2O3-X	ADD CO2+H2, O2, H2O TO MATERIAL GAS OF ⑥
8 In ₂ O ₃	In(CH ₃) ₃ (TMI), In(C ₂ H ₅) ₃ (TEI), AND O ₂ , H ₂ O, CO ₂
REFRACTORY METAL	FLUORIDE (MoF6, WF6), - CHLORIDE (MoCl5, WCl6, TaCl5, TiCl4, ZrCl4), ORGANIC COMPOUND (Ta(OC2H5)5, (PtCl2)2(CO)3,
® SILICIDE	MIX SILANE-BASED GAS SUCH AS SIH4, Si ₂ H ₆ , ETC. WITH MATERIAL GAS OF ⁽⁹⁾
① TiN	TiCl4 + N2(+NH3)
12 TION	ADD O2, H2O TO TiCl4 + N2(+NH3)
① Cu	HEXAFLUOROACETYLACETONATE COPPER (Cu(HFA)2) AND C((HFA)2 + H2O OTHER MATERIALS OF CHELATE COMPOUND ARE Cu(DPM)2, Cu(AcAc)2, Cu(FOD)2, Cu(PPM)2, Cu(HFA)TMVS
(1) Al-Si OR Al-Si-Cu	ADD MATERIAL GAS OF ① OR ③ TO MATERIAL GAS OF ⑥

^{*} ADD EACH MATERIAL GAS TO HYDROGEN-BASED CARRIER GAS BASED ON H2 GAS SUCH AS H2, H2+Ar, H2+Ne, H2+He, H2+Kr, ETC.





(V)

FIG.24A

FIG.24B